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(21) International Application Number: PCT/US97/22036 (22) International Filing Date: 10 December 1997 (10.12.97) (30) Priority Data: 60/034,615 31 December 1996 (31.12.96) US (71) Applicant: ONYX PHARMACEUTICALS, INC. [US/US]; 3031 Research Drive, Richmond, CA 94806 (US). (72) Inventors: BISCHOFF, James, R.; 214 Lake Drive, Kesington, CA 94708 (US). NYE, Julie; 954 San Benito Road, Berkeley, CA 94707 (US). LELIA, Ng; 5025 Hiller Lane, Martinez, CA 94553 (US). HORN, Sharon; 3163 Pine Valley Drive, Fairfield, CA 94533 (US). WILLIAMS, Angelica; 1261 Wyoming Street, Golden, CO 80403 (US). KIRN, David; 359 Starling Road, Mill Valley, CA 94941 (US). (74) Agent: GIOTTA, Gregory; Onyx Pharmaceuticals, Inc., 3031 Research Drive, Richmond, CA 94806 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>Without international search report and to be republished upon receipt of that report.</i>
(54) Title: CYTOPATHIC VIRUSES FOR THERAPY AND PROPHYLAXIS OF NEOPLASIA (57) Abstract Methods and compositions for treating neoplastic conditions by viral-based therapy are provided. Mutant virus lacking viral proteins which bind and/or inactivate <i>p53</i> or <i>RB</i> are administered to a patient having a neoplasm which comprises cells lacking <i>p53</i> and/or <i>RB</i> function. The mutant virus is able to substantially produce a replication phenotype in non-replicating, non-neoplastic cells having essentially normal <i>p53</i> and/or <i>RB</i> function. The preferential generation of replication phenotype in neoplastic cells results in a preferential killing of the neoplastic cells, either directly or by expression of a cytotoxic gene in cells expressing a viral replication phenotype.		